

INFORMATION DISCLOSURE CITATION  
(Use several sheets if necessary)

Applicant: Lai, Shih-Yaw et al.  
For: Elastic Substantially Linear Olefin Polymers  
Atty. Docket No. DOW-8544-CJ

## U.S. PATENT DOCUMENTS

MINER IAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
PR	3 4 9 1 0 7 3	1-20-70	Marinak			
	4 2 0 5 0 2 1	5-27-80	Morita et al.			
	5 0 5 5 4 3 8	10-08-91	Canich			
	4 5 3 0 9 1 4	7-23-85	Ewen et al.			
	4 9 3 5 4 7 4	6-19-90	Ewen et al.			
	4 9 3 7 2 5 9	6-26-90	Ewen et al.			
	5 0 2 6 7 9 8	6-25-91	Canich			
	3 6 4 5 9 9 2	02-29-72	Elston			
	5 0 9 6 8 6 7	03/1992	Canich et al.	502	103	
	6 0 6 0 5 6 7	05/2000	Lai et al.	526	126	
PR	5 9 8 6 0 2 8	11/1999	Lai et al.	526	126	

## FOREIGN PATENT DOCUMENTS

MINER IAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
PR	0 4 1 6 8 1 5 A2	03/1991	European			
PR	9 0 0 3 4 1 4	04/1990	WO			

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

PR	Journal of Polymer Science, Part A, Vol. 1 (pp. 2869-2880 (1963)), "Long-Chain Branching Frequency in Polyethylene" by J. E. Guillet
	Polymer Preprints, Amer. Chem. Society, Vol. 12, No. 1, pp. 277-281 (March 1971), "Evidence of Long-Chain Branching in High Density Polyethylene" by E. E. Drott and R. A. Mendelson
	Journal of the American Chemical Society, 96:7, pp. 1729-1742 (March 31, 1976) "Structure and Chemistry of Biscyclopentadienyl-Mn Complexes" by Joseph W. Lauber and Roald Hoffman
	Polymer Engineering and Science, Vol. 16, No. 12, pp. 811-816 (December 1976), "Influence of Long-Chain Branching on the Viscoelastic Properties of Low-Density Polyethylenes" by L. Wild, R. Ranganath, and D. Knobeloch
	Angew. Chem. Int. Ed. Engl. pp. 630-632 (1976) Vol. 15, No. 10, "Halogen-Free Soluble Ziegler Catalysts for the Polymerization of Ethylene. Control of Molecular Weight by Choice of Temperature" by Arne Andresen et al.
PR	Advances in Organometallic Chemistry, pp. 99-146, Vol. 18, (1980) "Ziegler-Natta Catalysis" by Hansjorg Sinn and Walter Kaminsky

MINER:

Kohut, Pukay

DATE CONSIDERED:

2/3/04

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Rev. 5-88

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
RL	5 0 8 2 9 0 8	1-21-92	Imai et al.			
	5 0 5 9 4 8 1	10-22-91	Lustig et al.			
	4 9 6 7 8 9 8	<del>11-6-90</del> 12-1-90	<del>Muller et al.</del> Lustig et al.			
	4 9 6 6 9 5 1	10-30-90	Benham et al.			
	4 9 6 3 3 8 8	10-16-90	Benoit			
	4 8 3 3 0 1 7	5-23-89	Benoit			
	4 8 2 6 9 3 9	5-2-89	Stuart			
	4 8 0 3 2 5 3	2-7-89	McDaniel et al.			
	4 6 9 2 3 8 6	9-8-87	Schinkel et al.			
RL	4 6 9 0 9 9 1	9-1-87	<del>Seppel</del> Seppala			

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

RL	Derwent 90-239017/31
RL	Advances In Polyolefins, by R. B. Seymour and T. Cheng, (1967) "Polymerization of Olefins With A Homogeneous Zirconium/Alumoxane Catalyst", pp. 361-371 by W. Kaminsky and R. Hahnen

EXAMINER:

Robert R. R. R.

DATE CONSIDERED:

2/3/04

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PR	4 6 6 8 5 7 5	5-26-87	Schinkel et al.			
	4 6 6 6 7 7 2	5-19-87	Schinkel et al.			
	4 6 2 4 9 9 1	11-25-86	Haas			
	4 5 8 8 7 9 4	5-13-86	Oda			
	4 4 8 2 6 8 7	11-13-84	Noshay et al.			
	4 3 9 0 6 7 7	6-28-83	Karol et al.			
	4 3 6 3 9 0 4	12-14-82	Fraser et al.			
	4 3 5 9 5 6 1	11-16-82	Fraser et al.			
PR	4 3 0 3 7 7 1	12-01-81	Wagner et al.			

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## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

PR	1991 Specialty Polyolefins Conference Proceedings, "The Marketing Challenge Created By Single Site Catalysts in Polyolefins," September 24, 1991, (pp. 41-45) by Michael P. Jeffries
	High Polymers, Vol. XX, "Crystalline Olefin Polymers" Part I, pp. 495-501, Raff et al.
	1991 Polymers, Laminations & Coatings Conference, TAPPI Proceedings, presented in February, 1991, pp. 289-296, "A New Family of Linear Ethylene Polymers with Enhanced Sealing Performance" by D. Vander Sanden and R. W. Halle
	Society of Plastic Engineers 1991 Specialty Polyolefins Conference Proceedings, pp. 41-55, "The Marketing Challenge Created by Single Site Catalysts in Polyolefins" by M. Jellenes (September 24, 1991)
	Advances in Polyolefins, by R. B. Seymour and T. Cheng, (1987), pp. 373-380 "Crystallinity and Morphology of Ethylene $\alpha$ -Olefin Copolymers" by P. Schouterden, G. Groeninckx, and H. Reynaers
PR	Advances in Polyolefins, by R. B. Seymour and T. Cheng, (1987) "New Catalysis and Process For Ethylene Polymerization", pp. 337-354, by F. Karol, B. Wagner, F. Levine, G. Goeke, and A. Noshay

EXAMINER: Kohut R DATE CONSIDERED: 2/3/04

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RR	4 3 0 2 5 6 6	11-24-81	Karol et al.			
	4 2 5 9 4 6 8	3-31-81	Kajiura et al.			
	4 0 1 1 3 8 4	3-8-77	Baxmann et al.			
	5 0 8 4 9 2 7	2-4-92	Parkevich			
	5 0 8 4 0 3 9	1-28-92	Cancio et al.			
	5 0 7 3 5 9 9	12-17-91	Genske			
	5 0 7 3 4 5 2	12-17-91	Satou et al.			
	5 0 6 8 4 8 9	11-26-91	Edwards et al.			
	5 0 6 4 7 9 6	11-12-91	Specia			
	5 0 5 5 5 3 4	10-8-91	Theobald			
RR	5 0 5 5 5 3 3	10-8-91	Allen et al.			

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## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

RR	Journal of Macromolecular Science: Reviews in Macromolecular Chemistry and Physics, C29(243), pp. 201-303 (1989) "A Review of High Resolution Liquid <sup>13</sup> C Carbon Nuclear Magnetic Resonance Characterization of Ethylene-Based Polymers", J. C. Randall.
	Journal of Non-Newtonian Fluid Mechanics, 36, pp. 255-263 (1990) "Additional Observations on The Surface Melt Fracture Behavior Of Linear Low-Density Polyethylene" by R. Moynihan, D. Baird, and R. Ramanathan
	Makromol. Chem. Rapid Commun., pp. 39-94 (1990) "Terpolymers of Ethylene, Propene and 1,5-Hexadiene Synthesized with Zirconocene/Methylaluminoxane" by W. Kaminsky and H. Drogemüller
	Journal of Rheology, 35 (4), 3 (May, 1991) pp. 497-522 "Wall Slip of Molten High Density Polyethylene. I. Sliding Plate Rheometer Studies" by S. C. Hatzikiriakos and J. M. Dealy
	Proceedings of the 1991 IEEE Power Engineering Society, pp. 184-190 (September 22-27, 1991). "New Specialty Linear Polymers ISLPT For Power Cables" by Monica Hendewerk and Lawrence Spenadel
RR	Society of Plastic Engineers Proceedings, Polyolefins VII International Conference, February 24-27, 1991, "Structure/Property Relationships In Exopol <sup>TM</sup> Polymers" (pp. 45-66) by C. Speed, B. Trudell, A. Mehta, and F. Stehling

EXAMINER: Roberto Rocha DATE CONSIDERED: 2/3/04

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
RL	S 0 4 7 4 6 8	9-10-91	Lee et al.			
	R E 3 3 6 8 3	9-3-91	Allen et al.			
	S 0 4 3 0 4 0	8-27-91	Butler			
	S 0 4 1 3 1 6	8-20-91	Parnell et al.			
	S 0 2 5 0 7 2	6-18-91	Nowlin et al.			
	S 0 2 4 7 9 9	6-18-91	Harp et al.			
	S 0 1 5 5 1 1	5-14-91	Treybig et al.			
	S 0 1 3 8 0 1	5-7-91	Cozewith et al.			
RL	S 0 0 6 3 9 6	4-9-91	VanBortel et al.			

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## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

RL	Journal of Applied Polymer Science, pp. 3751-3765 (1985) Vol. 30, "On the Effects of Very Low Levels of Long Chain Branching on Rheological Behavior in Polyethylene" by B. H. Bersted
	Journal of Polymer Science: Polymer Chemistry Edition, pp. 2151-2164 (1985) Vol. 23, "Ethylene Propylene Diene Terpolymers Produced with a Homogeneous and Highly Active Zirconium Catalyst" by Walter Kaminsky et al
	The Society of Rheology, pp. 337-357 (1986) Vol. 30, "Wall Slip in Viscous Fluids and Influence of Materials of Construction" by A. V. Ramamurthy
	Makromol. Chem., Macromol. Symp., 4, pp. 103-113 (1986) "Elastomers By Atactic Linkage of $\alpha$ -Olefins Using Soluble Ziegler Catalysts" by W. Kaminsky and M. Schlobohm
	Journal of Rheology, 31 (8) pp. 815-834 (1987) "Wall Slip and Extrudate Distortion in Linear Low-Density Polyethylene" by D. Kalika and M. Denn
RL	Makromol. Chem., 190, pp. 515-526 (1989) "Copolymerization of Cycloalkenes with Ethylene in Presence of Chiral Zirconocene Catalysts" by W. Kaminsky and R. Spiehl

EXAMINER:

Kohutsky, R. A.

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RL	4 9 8 3 4 4 7	1-8-91	Crass et al.			
	4 9 8 1 8 2 6	1-1-91	Specia			
	4 9 7 5 3 1 5	12-4-90	Bolthe et al.			
	4 9 6 8 7 6 5	11-6-90	Yagi et al.			
	4 9 2 5 7 2 8	5-15-90	Crass et al.			
	4 9 2 1 9 2 0	5-1-90	Collomb-Ceccarini et al.			
	4 8 9 2 9 1 1	1-9-91	Genske			
	4 8 8 8 3 1 8	12-19-89	Allen et al.			
RL	4 8 8 2 4 0 6	11-21-89	Cozewith et al.			

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## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

RL	Angew. Chem. Int. Ed. Engl., pp. 390-393, Vol 19 No. 5 (1980) "Living Polymers" on Polymerization with Extremely Productive Ziegler Catalysts by Hansjorg Sinn, Walter Kaminsky, Hans-Jurgen Vollmer, and Rudiger Woldt
	Polymer Bulletin, 9, pp. 464-469 (1983) "Halogen Free Soluble Ziegler Catalysts with Methylalumoxan as Catalyst" by Jens Herwig and Walter Kaminsky
	Makromol. Chem., Rapid Commun., 4, pp. 417-421 (1983) "Bis(cyclopentadienyl)zirkon-Verbindungen und Aluminoxane als Ziegler-Katalysatoren fur die Polymerisation und Copolymerisation von Olefinen" by Walter Kaminsky et al.
	ANTEC Proceedings, pp. 306-309 (1983), "Analysis of Long Chain Branching in High Density Polyethylene" by J.K. Hughes.
	Makromol. Chem., Rapid Commun., (5) pp. 225-228 (1984) "Influence of hydrogen on the polymerization of ethylene with the homogeneous Ziegler system bis(cyclopentadienyl)zirconiumdichloride/aluminoxane" by Walter Kaminsky et al.
RL	Journal of Polymer Science: Polymer Chemistry Edition, pp. 2117-2132 (1985) Vol. 23, "Homogeneous Ziegler-Natta Catalysis. II. Ethylene Polymerization by IVB Transition Metal Complex-Methyl Aluminoxane Catalyst Systems" by E. Giannetti and R. Mazzocchi

EXAMINER: Robert P. [Signature] DATE CONSIDERED: 2/3/04

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RM		4	8	7	6	3	2	1	10-24-89	Lo et al.			
		4	8	7	4	8	2	0	10-17-89	Cozewith et al.			
		4	8	5	7	6	1	1	8-15-89	Durand et al.			
		4	8	4	2	9	5	1	6-27-89	Yamada et al.			
		4	8	4	2	9	3	0	6-27-89	Schinkel			
		4	8	4	2	1	8	7	6-27-89	Janocha et al.			
		4	8	3	4	9	4	7	5-30-89	Cook et al.			
		4	8	3	0	9	2	6	5-16-89	Mostert			
		4	8	2	4	8	8	9	4-25-89	Mostert			
RM		4	8	0	8	6	3	5	2-28-89	Nguyen			

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												YES	NO

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EXAMINER: Robert Rab	DATE CONSIDERED: 2/3/04
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PR	4	7	8	9	7	1	4	12-6-88	Cozewith et al.			
	4	7	8	8	2	3	2	11-29-88	Needham			
	4	7	8	0	2	6	4	10-25-88	Dohrer et al.			
	4	7	7	5	7	1	0	10-4-88	Dunski et al.			
	4	7	6	4	5	4	9	8-16-88	Greenhalgh et al.			
	4	7	6	2	8	9	8	8-9-88	Matsuura et al.			
	4	7	4	2	1	3	8	5-3-88	Kageyama			
	4	7	3	2	8	8	2	3-22-88	Allen et al.			
	4	7	2	2	9	7	1	2-2-88	Datta et al.			
	4	7	1	9	1	9	3	1-12-88	Levine et al.			
PR	4	7	1	6	2	0	7	12-29-87	Cozewith et al.			

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												YES	NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)


EXAMINER: Kokubo Rake DATE CONSIDERED: 2/3/04

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PR	4 7 1 0 5 3 8	12-1-87	Jorgensen			
	4 6 9 0 9 9 2	9-1-87	Grubbs et al.			
	4 6 7 7 0 8 7	6-30-87	Lo et al.			
	4 6 7 6 9 2 2	6-30-87	Sommer			
	4 6 7 2 0 9 6	6-9-87	Nowlin			
	4 6 6 8 6 5 0	5-26-87	Lo et al.			
	4 6 6 6 9 9 9	5-19-87	Cook et al.			
	4 6 2 9 7 7 1	12-16-86	Candlin et al.			
	4 6 2 6 4 6 7	12-2-86	Hostetter			
PR	4 6 1 8 6 6 2	10-21-86	Nowlin			

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						YES	NO

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EXAMINER: <u>Rohit K. K.</u>	DATE CONSIDERED: <u>2/3/04</u>
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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
PR	4 5 9 9 3 9 1	7-8-86	Yamamoto et al.			
	4 5 9 3 0 0 9	6-3-86	Nowlin			
	4 5 8 7 3 1 8	5-6-86	Inoue et al.			
	4 4 7 4 7 4 0	<del>10/2/84</del> 4-29-86	Karwat et al. <del>Gross et al.</del>			
	4 5 6 8 7 1 3	2-4-86	Hansen et al.			
	4 5 4 7 5 5 5	10-15-85	Cook et al.			
	4 5 1 9 9 6 8	5-28-85	Michel et al. <del>Klaus et al.</del>			
	4 5 1 3 0 3 8	4-23-85	Anthony			
PR	4 5 0 5 9 7 0	3-19-85	Craver			

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EXAMINER: Rohit Raha DATE CONSIDERED: 2/3/04

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PR	4 4 6 7 0 6 5	8-21-84	Williams et al.			
	4 4 6 1 7 9 2	7-24-84	Anthony			
	4 4 5 4 2 8 1	6-12-84	Heitz et al.			
	4 4 5 2 9 5 8	6-5-84	Chester et al.			
	4 4 2 7 5 7 3	1-24-84	Miles et al.			
	4 4 2 4 1 3 8	1-3-84	Candlin et al.			
	4 4 1 0 6 4 9	10-18-83	Cieloszyk			
	4 3 8 3 0 9 5	5-10-83	Goeke et al.			
	4 3 7 9 1 9 7	4-5-83	Cipriani et al.			
	4 3 7 0 4 5 6	1-25-83	George			
PR	4 3 5 4 0 0 9	10-12-82	Goeke et al.			

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EXAMINER:

Roberto P. [Signature]

DATE CONSIDERED:

2/3/04

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4-765

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PL	5	0	5	5	3	3	8	10-8-91	Sheth et al.			
	5	0	1	9	3	1	5	5-28-91	Wilson			
	4	9	9	6	0	9	4	2-26-91	Dutt			
	4	9	5	9	4	3	6	9-25-90	Cozewith et al.			
	4	9	2	3	7	5	0	5-8-90	Jones			
	4	8	8	3	8	5	3	11-28-89	Hobes et al.			
	4	8	7	4	8	2	0	10-17-89	Cozewith et al.			
PL	4	8	2	0	5	8	9	4-11-89	Dobreski et al.			

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EXAMINER: <u>Roberto Robles</u>	DATE CONSIDERED: <u>2/3/04</u>
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PR	4	7	9	2	5	9	5	12-20-88	Cozewith et al.			
	4	7	2	0	4	2	7	1-19-88	Clauson et al.			
	4	6	4	9	0	0	1	3-10-87	Nakamura et al.			
	4	6	1	7	2	4	1	10-14-86	Mueller			
	4	6	1	3	5	4	7	9-23-86	Wagner et al.			
	4	5	9	8	1	2	8	7-1-86	<del>Randall et al.</del> James et al.			
	4	5	9	7	9	2	0	7-1-86	Golike			
	4	5	8	8	6	5	0	5-13-86	Mientus et al.			
PR	4	5	6	4	5	5	9	1-14-86	Wagner			

FOREIGN PATENT DOCUMENTS												
EXAMINER INITIAL	DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)


EXAMINER: Richard R. Baker DATE CONSIDERED: 2/3/04

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INFORMATION DISCLOSURE CITATION  
(Use several sheets if necessary)

Applicant: Lai, Shih-Yaw et al.  
For: Elastic Substantially Linear Olefin Polymers  
Atty. Docket No. DOW-8544-CJ

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
PR	4 5 6 3 5 0 4	1-7-86	Hert et al.			
	4 5 5 1 3 8 0	11-5-85	Schoenberg			
	4 5 3 2 1 8 9	7-30-85	Mueller			
	4 5 1 4 4 6 5	4-30-85	Schoenberg			
	4 4 8 6 5 7 9	12-4-84	Machon et al.			
	4 4 8 5 2 1 7	11-27-84	Gunter et al.			
	4 4 6 4 4 2 6	8-7-84	Anthony			
	4 4 6 3 1 5 3	7-31-84	Mizutani et al.			
	4 4 3 8 2 4 3	3-20-84	Kashiwa et al.			
PR	4 4 1 8 1 1 4	11-29-83	Briggs et al.			

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO

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EXAMINER: Robert R. R. R. DATE CONSIDERED: 2/3/04

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INFORMATION DISCLOSURE CITATION  
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Applicant: Lai, Shih-Yaw et al.  
For: Elastic Substantially Linear Olefin Polymers  
Atty. Docket No. DOW-8544-CJ

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
PR	4 3 9 9 1 8 0	8-16-83	Briggs			
	4 3 8 0 5 6 7	4-19-83	Shigemoto			
	4 3 6 7 2 5 6	1-4-83	Biel			
	4 3 4 9 6 4 8	9-14-82	Jorgensen et al.			
	4 3 4 6 8 3 4	8-31-82	Mazumdar			
	4 3 4 0 6 4 1	7-20-82	Weiner			
	4 3 4 0 6 4 0	7-20-82	Weiner			
	4 3 3 9 4 9 6	7-13-82	Weiner			
	4 3 3 9 4 9 3	7-13-82	Weiner			
	4 3 2 8 3 2 8	5-4-82	Minami et al.			
PR	4 3 0 3 7 1 0	12-1-81	Bullard et al.			

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Applicant: Lai, Shih-Yaw et al.  
For: Elastic Substantially Linear Olefin Polymers  
Atty. Docket No. DOW-8544-CJ

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
RL	4 4 0 5 7 7 4	9-20-83	Miwa et al.			
	4 5 1 0 3 0 3	4-9-85	Oda et al.			
	4 6 6 8 7 5 2	5-26-87	Tominari et al.			
	4 9 8 7 2 1 2	1-22-91	Mortero et al.			
	5 0 8 4 5 4 0	1-28-92	Albizzati et al.			
	5 6 6 5 8 0 0	09/1997	Lai et al.	524	115	
	5 5 2 5 6 9 5	06/1996	Lai et al.	526	352	
	66 0 2 5 4 4 8	02/2000	Swindoll et al.	526	127	
RL	5 3 3 6 7 4 6	08/1994	Tsutsui et al.	526	348.6	

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						YES	NO

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EXAMINER: Robert KubackiDATE CONSIDERED: 2/3/04

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